



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

**MEMORANDUM:**

**From:** Kevin Sweeney, Senior Entomologist

A handwritten signature in black ink, appearing to read "K. Sweeney", with a long, sweeping line extending upwards and to the right.

**Date:** January 18, 2013

**Subject:** PRODUCT PERFORMANCE DATA EVALUATION RECORD

**DP barcode:** 406583, 406584, 406585, 406587, 406589, 406590, 406591, 406592

**Decision no.:** 469572, 469580, 469576, 469581, 469582, 469577, 469579, 469578

**Submission no:** 923486, 923494, 923496, 923498, 923500, 923492, 923489, 923491

**Action code:** R340

**Product Name:** DS-205, D200, DS 210, HPC 2, HPC3, DP 205, DP 210, and VERA 3

**EPA Reg. No or File Symbol:** 73049-177, 182, 183, 185, 187, 366, 368, and 431

**Formulation Type:** RTU products – pump spray and aerosol

**Ingredients statement from the label with PC codes included:** 0.05% s-bioallethrin (PC code: 004004), 0.02% and 0.03%, deltamethrin (PC code: 097805), and 0.05% pyrethrins (PC code: 069001). No synergist is in any of these formulations.

**Use pattern:** residential and commercial crack and crevice, spot, and general surface treatments with indoor and outdoor uses.

**Application rates of product/active ingredient:** Once a week, 1 oz per 10 square feet.

**OCSPP Guideline:** 810.3500

**I. Action Requested:** Review selectively cited data and labels. The cited data were submitted to support the same contact spray use directions and pests for the all eight products.

**II. Background:** The registrant submitted four studies to support the addition of kill and/or residual claims for carpenter ants, Argentine ant, fire ants, harvester ants, Pharaoh's ant, American cockroach, German cockroach, and Asian Ladybird beetle.

### III. Study Reviews:

Primary reviews of each MRID are attached.

**MRID48935601. Zhai, J. 2011. Laboratory GLP Evaluation of Knockdown and Kill Efficacy of UltraTec D200 Insecticide as a Direct Spray Against Pharaoh Ants (*Monomorium pharaonis*) and Harvester Ants (*Pogonomyrmex* sp.).**

This study evaluated the knockdown and kill efficacy of the product (EPA Reg. No. 73049-182), which contains 0.02% deltamethrin, as a direct spray against harvester and Pharaoh ants. The exposure time was 5 minutes before transfer to clean containers.

**Conclusions: The study is acceptable.** The test material provided fast knockdown and effective killing of both ant species.

**MRID48935602. Donahue, W. A. 2011. Evaluation of the Insecticidal Activity (Efficacy) of UltraTec 5 SC MUP (Deltamethrin 4.75%) applied as a Direct Application against Chiggers, Harvester Ants, Horse Flies, Deer Flies and Biting Gnats/Midges under Laboratory Conditions.**

This study evaluated the kill efficacy of the test material. The test material was a 4.75% deltamethrin diluted to 0.01%, which is half or one-third the deltamethrin concentration found in the amended products. The 0.01% deltamethrin solution was applied as follows: 1 g for chiggers and midges, 2 g for ants, 2.5 g for flies. The test species were:

Harvester ant (*Pogonomyrmex californicus*)  
Biting midge (*Culicoides sonorensis*, adult females)  
Chigger (Genus *Trombicula*)  
Horse fly (Genus *Tabanus*, adult)  
Deer fly (Genus *Chrysops*, adult)

**Conclusion: The study is acceptable.** The data support "Kills" claims against the harvester ant, biting flies, biting midges and the chigger.

**MRID48935603. Zhai, J. 2012. Residual Efficacy of UltraTec D200 Crawling Insect Killer on Non-Porous (Ceramic tile) and Porous (Unpainted Wood) Surfaces against German Cockroaches, *Blattella germanica*, and American cockroaches, *Periplaneta Americana*.**

This study evaluated the residual efficacy of the test material on porous and non-porous surfaces against both German and American cockroaches. The test material, EPA Reg. No. 73049-182, contained 0.02% deltamethrin. Three amendments and seven protocol deviations were noted; these did not affect interpretation of study results.

**Conclusion:** The study is partially acceptable. When applied according to the label rate, the product provided excellent knockdown and killing of both cockroach species on non-porous ceramic tiles. Unacceptable results were seen on unpainted wood (porous surface) sections. Therefore, the study supports 18 month control of both cockroach species on non-porous surfaces only.

**MRID48935604. Zhai, J. 2012. Residual Efficacy of UltraTec D200 Insecticide on Non-Porous (Ceramic tile) and Porous (Unpainted Wood) Surfaces against Argentine Ants, *Linepithema humile*.**

This study evaluated the residual efficacy of the test material on porous and non-porous surfaces against the Argentine ant. The test material, EPA Reg. No. 73049-182, contained 0.02% deltamethrin. Argentine ants were exposed to treated wood and ceramic tiles at regular intervals through 18 months post-treatment. One amendment and 6 protocol deviations were noted; these did not affect interpretation of study results.

**Conclusion:** The study is partially acceptable. When applied according to the label rate, the product provided excellent knockdown and killing of Argentine ant on non-porous ceramic tiles. Unacceptable results were obtained on unpainted wood (porous surface) sections. Therefore, the study supports 18 month control of Argentine ant on non-porous surfaces only.

#### **IV. Entomologist's Recommendations:**

1. The registrant made note of residual activity on non-porous surfaces only. The remaining labeling is acceptable except as follows:
  - a. Remove fire ants as no data were submitted to support the addition of these pests to the label.
  - b. Remove the black widow spiders, hobo spider and brown recluse spider unless the registrant previously submitted data for these pests. They were not listed in the citations included for review.